



## Experimental Physical Sciences Directorate

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April 24, 2009

Dr. Eugene Henry, Associate Director  
Office of Nuclear Physics  
U. S. Department of Energy  
GTN SC-26  
19901 Germantown Road  
Germantown, MD 20874

Dear Dr. Henry,

On August 8, 2008, the Office of Nuclear Physics delivered two charges to NSAC, related to the National Isotope Production and Applications (NIPA) program, which transferred to the Office of Nuclear Physics with approval of the fiscal 2009 budget. In response to these charges, NSAC established a standing sub-committee – the NSAC Isotope (NSACI) sub-committee. Professor Ani Aprahamian of Notre Dame University and Dr. Don Geesaman of Argonne National Laboratory agreed to act as the Co-Chairs of this sub-committee. Dr. Aprahamian is responsible for the response to Charge 1 and Dr. Geesaman is responsible for charge 2.

The sub-committee was put together with a broad membership representing the research communities, industry, production, and homeland security. They collected the relevant studies that have been conducted in this area. The committee had three meetings as they focused on the answers to the questions of Charge 1, “NSACI is requested to consider broad community input regarding how research isotopes are used and to identify compelling research opportunities using isotopes.”

Accompanying this letter is the result of that work, the report “Compelling Research Opportunities using Isotopes.” This report was presented in draft form to NSAC at their meeting March 2, 2009, and was unanimously approved by email vote on April 24, 2009.

Sincerely,

Susan J. Seestrom  
Chair, NSAC

Cc: Jehanne Simon-Gillo  
ADEPS File 09-0232  
IRM-RMMSO, MS A150